

WA (Turn in HW)

1) Write a congruence Statement.
 $\triangle MNO \cong \triangle PRQ$ ✓

2) How do you know $\angle N \cong \angle R$.
Third Angles Theorem

Oct 9-11:26 AM

Outcome: use side lengths and angles to prove Δ s congruent

10/9/08

Oct 9-11:41 AM

Side-Side-Side (SSS)
Side-Side-Side Congruence Postulate

If 3 sides of a triangle are \cong to 3 sides of a second triangle then the triangles are \cong .

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G: $KL \cong LN$
 $KM \cong MN$ SSS

P: $\triangle KLM \cong \triangle NLM$

Statements	Reasons
1) $KL \cong LN$ $KM \cong MN$	1) Given
2) $LM \cong LM$	2) Reflexive Prop
3) $\triangle KLM \cong \triangle NLM$	3) <u>SSS</u> Congruence postulate

Oct 9-11:48 AM

(SAS) Side-Angle-Side Congruence Postulate -

If two sides and the included angle of a triangle are congruent to 2 sides and the included angle of a 2nd triangle, then the Δ 's are congruent.

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$\Delta RST \cong \Delta UVW$

SAS!!

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G: $BC \cong AD, BC \parallel AD$
P: $\Delta ABC \cong \Delta CDA$

Statement	Reason
1) $BC \cong AD, BC \parallel AD$	1) Given
2) $AC \cong AC$	2) Reflexive
3) $\angle BCA \cong \angle CAD$	3) Alt. int. \angle 's
4) $\Delta ABC \cong \Delta CDA$	4) SAS.

Oct 9-12:02 PM

Oct 9-12:08 PM

SSS
SAS
~~ASS~~

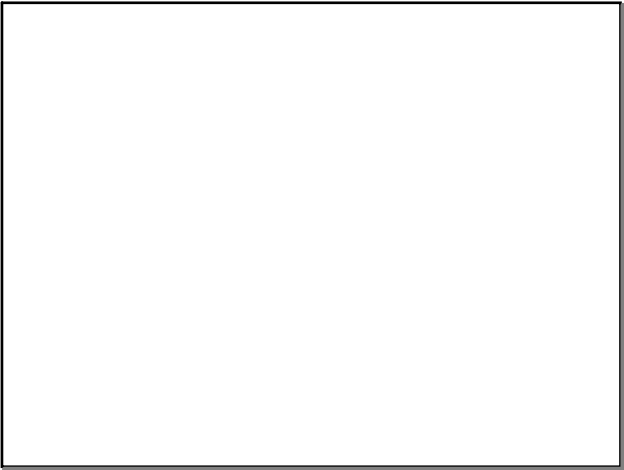
Hypotenuse Leg.
HL - theorem. only true for a right triangle

across from the right angle

Oct 9-12:12 PM

HL theorem ✓

Oct 9-12:16 PM



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